

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)
DEPARTMENT OF MECHANICAL ENGINEERING

List of professional electives offered by the Department of Mechanical Engineering
AY 2022-23

S. No.	Professional Elective No.	Name of Professional Elective	PE Code	No. of Credits	Offered to
1	Professional Elective-I	Vibration Analysis and Noise Control	U20PE610ME	3	BE VI Sem Mechanical Engineering
2		Production Drawing	U20PE620ME	3	
3		Advanced Fluid Mechanics	U20PE630ME	3	
4		Operations Research	U20PE640ME	3	
5		Automotive Chassis Components	U20PE650ME	3	
6	Professional Elective-II	Robotics	U20PE710ME	3	BE VII Sem Mechanical Engineering
7		Computer Integrated Mfg.	U20PE720ME	3	
8		Refrigeration and Air conditioning	U20PE730ME	3	
9		Supply Chain Management	U20PE740ME	3	
10		Automotive Transmission	U20PE750ME	3	
11	Professional Elective-III	Theory of Elasticity	U20PE760ME	3	
12		Nano Technology	U20PE770ME	3	
13		Advanced IC Engines	U20PE780ME	3	
14		Production and Operations Management	U20PE790ME	3	
15		Vehicle Dynamics	U20PE712ME	3	
16	Professional Elective-IV	Control Systems Theory	U20PE713ME	3	
17		Additive Manufacturing Technologies	U20PE714ME	3	
18		Renewable Energy Systems	U20PE715ME	3	
19		Value Analysis and Value Engineering	U20PE716ME	3	
20		Vehicle Body Engineering	U20PE717ME	3	
21	Professional Elective-V	Product Design and Development	U20PE810ME	3	BE VIII Sem Mechanical Engineering
22		Introduction to Flexible Manufacturing Systems	U20PE820ME	3	
23		Power Plant Engineering	U20PE830ME	3	
24		Optimization Techniques	U20PE840ME	3	
25		Automotive Aero Dynamics	U20PE850ME	3	
26	Professional Elective-VI	Composite Materials	U20PE860ME	3	
27		Product Life Cycle Management	U20PE870ME	3	
28		Computational Fluid Dynamics	U20PE880ME	3	
29		Artificial Intelligence and Neural Networks	U20PE890ME	3	
30		Unmanned Aerial Vehicles	U20PE812ME	3	